

IN THE CLAIMS:

Listing of claims:

1. (Currently Amended) An edge seal assembly ~~for use with a nip roller set~~, comprising:
 - an edge wire;
 - an edge wire support;
 - a bearing sleeve which receives a driving member of a film driving mechanism such that said edge wire support retains an edge seal position while said driving member rotates within the sleeve.
2. (Original) The edge seal assembly as recited in claim 1 wherein said edge seal support includes an insert head and a housing receiving said insert head.
3. (Original) The edge seal assembly as recited in claim 2 wherein said housing includes a pair of side positioning members between which said insert head is positioned.
4. (Original) The edge seal assembly as recited in claim 3 wherein said side positioning members include a pair of shoes releasably secured to said housing.
5. (Original) The edge seal assembly as recited in claim 4 wherein said shoes are electrically conductive and said housing is electrically insulating.
6. (Original) The edge seal assembly as recited in claim 1 wherein said bearing sleeve includes a friction reducing roller bearing on an interior surface and further includes an intermediate slot dimensioned for receipt of the electrically conductive housing.
7. (Currently Amended) The edge seal assembly as recited in claim 1 further comprising a nip roller set with a first roller member having means for attachment with a rotating roller component of the nip roller set, and said first roller member being free to rotate relative to said sleeve.
8. (Currently Amended) The edge seal assembly as recited in claim ~~[[1]]~~ 7 further comprising a second roller member having means for attachment with ~~[[a]]~~ the rotating roller component of the nip roller set, and said second roller member being free to rotate relative to said sleeve.
9. (Currently Amended) The edge seal assembly as recited in claim 1 wherein said support includes a base block and a housing ~~member-releasable~~ releasably secured to said base block, and said block and housing having a cavity for receiving the driving member of the nip roller set.

10. (Original) The edge seal assembly as recited in claim 9 further comprising a pair of electrical conductor extensions and wherein said base block and housing are releasably secured by said electrical conductor extensions extending within each of said housing and base block.

11. (Original) The edge seal assembly as recited in claim 10 wherein said housing includes a pair of side positioning members between which said insert head is positioned and said side positioning members include a pair of shoes releasably secured to said housing and said conductor extensions are a pair of conductor pins with each being in electrical communication with a respective one of said shoes.

12. (Currently Amended) The edge seal assembly as recited in claim [[1]] 2 further comprising a guide pin which extends into said [[head]] insert head which [[head]] insert head is slidably supported thereon.

13. (Original) The edge seal assembly as recited in claim 1 wherein said support includes a housing receiving a pair of releasable shoes formed of a conductive material and said head insert includes an upper wire portion and two conducting side extensions of said upper wire portion which are placed in electrical communication with said shoes.

14. (Original) The edge seal assembly as recited in claim 1 further comprising a wire formed of a material with a TCR value which increases by at least .008 ohm per 10 degree rise in temperature between 350 to 425 degrees.

15. (Currently Amended) An edge seal assembly, comprising:
an edge seal support; and
an edge seal wire having a TCR value of .00015 to .00030 ohm/ohm/degree Celsius at 20 degrees Celsius resistivity for a 0 to 100 degrees Celsius and [[a]] an ohms/CMF of from 350 or more.

16. (Original) An edge seal assembly; comprising:
an edge seal heater element;
a sleeve;
an edge seal support fixed to said sleeve and supporting the edge seal heater element;
a roller bearing supported by said sleeve and dimensioned for receipt of a roller shaft of a film driving mechanism.

17. (Original) The edge seal as recited in claim 16 wherein said heater element is a resistance wire.

18. (Original) The edge seal as recited in claim 16 further comprising a roller which is slidably received on said sleeve and has means for releasably fixing to a rolling component of the nip roller

19. (Original) An edge seal assembly comprising:
an edge seal heater element;
a support for said edge seal heater element;
a control system in electrical communication with said heater element and said control system including means for comparing resistance levels at a current temperature and comparing with a TCR value reference.

20. (Currently Amended) A method of sealing an edge of a bag in a foam-in-bag assembly, comprising:

providing ~~[[an]]~~ the edge sealer assembly of claim 19 which is supported on a moving drive member of a film drive mechanism while retaining a non-rotating edge seal position relative to film being fed past the edge sealer assembly;

heating ~~a-heating~~ the heater element of the edge sealer assembly to form an edge seal in a bag of the foam-in-bag assembly.

21. (Currently Amended) A foam-in-bag assembly~~[[;]]~~, comprising:
a film feed mechanism which feeds film with a film driver;
a bag forming assembly which comprises ~~[[an]]~~ the edge sealer assembly of claim 19 that contacts film being fed by said film driver and which is supported on a moving member of said film feed mechanism and retains a fixed position relative to said moving member while in sealing engagement with said film being fed by said film driver;
a dispenser for feeding foam forming material to a bag being formed by said bag forming assembly.

22. (Original) The foam-in-bag assembly of claim 21 wherein said film feed mechanism includes a pair of nip rollers which receive film therebetween, and wherein said film feed mechanism includes a roller support for one of said rollers that is adjustable between a first position and a second position which is further removed from an opposing one of said nip rollers

23. (Currently Amended) The foam-in-bag assembly of claim 22 wherein said roller support is pivotably supported ~~on said film~~.

24. (Original) The foam-in-bag assembly of claim 23 wherein said bag forming assembly further comprises cross-cut forming means for forming a cross cut in a bag being

formed by said bag forming assembly, and wherein said cross cut forming means is received by said roller support and adjustable therewith.

25. (Original) The foam-in-bag assembly as recited in claim 24 wherein said cross-cut forming means includes a cross-cut wire and cross cut wire base, with said cross cut wire having pin conductors at opposite ends dimensioned for sliding reception and removal relative to pin reception ports in said cross-cut wire base.

26. (Original) The foam-in-bag assembly as recited in claim 25 further comprising a pair of cross- seal wires each having pin conductors at opposite ends dimensioned for sliding reception and removal relative to pin reception ports in a cross-cut wire base and said cross-seal wires being positioned to opposite sides of said cross-cut wire.

27. (Currently Amended) The foam-in-bag assembly as recited in claim 22 wherein said roller support is a front access door of the foam-in-bag assembly.

28. (Original) The foam in bag assembly as recited in claim 27 further comprising a latch mechanism for retainment of the roller support in a film feed position.

29. (Original) The foam-in-bag assembly as recited in claim 27 further comprising a door movement controller which prevents free fall of said door upon release of said latch.

30. (Currently Amended) ~~[[A]~~ The foam-in-bag assembly of claim 21 further comprising:

a cross cut wire base; and

~~a cam-operated driving system in driving engagement with said cross cut wire base for moving said cross cut wire base between a cross cut and non cross cut relationship relative to film material~~ a cross-cut wire, and said means for comparing resistance levels being in communication with said cross-cut wire.

31. (Currently Amended) The assembly of claim 30 wherein said ~~cam-operated driving system further comprising a biasing device which is designed to accommodate for deviation relative an opposite base block between which the film being pinched is received~~ cross-cut wire is formed of a different material than that of said edge seal wire.